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CONFIRMATORY SAMPLING REPORT FOR BUILDING 808 TANK G808 BASE
REALIGNMENT AND CLOSURE NAS CECIL FIELD FL
9/1/2000
TETRA TECH NUS INC

Confirmatory Sampling Report
for
Building 808, Tank G808

Base Realignment and Closure

Naval Air Station Cecil Field
Jacksonville, Florida



Southern Division
Naval Facilities Engineering Command
Contract Number N62467-94-D-0888
Contract Task Order 0121

September 2000

**CONFIRMATORY SAMPLING REPORT
FOR
BUILDING 808, TANK G808
BASE REALIGNMENT AND CLOSURE**

**NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA**

**COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT**

**Submitted to:
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Naval Facilities Engineering Command
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ACRONYMS

| | |
|-------------------|--|
| ABB-ES | ABB Environmental Services, Inc. |
| BLS | Below Land Surface |
| CSR | Confirmatory Sampling Report |
| FID | Flame Ionization Detector |
| NAS | Naval Air Station |
| NFA | No Further Action |
| OVA | Organic Vapor Analyzer |
| POA | Plan of Action |
| SAP | Sampling and Analysis Plan |
| SOUTHNAVFACENGCOM | Southern Division Naval Facilities Engineering Command |
| TtNUS | Tetra Tech NUS, Inc. |
| UST | Underground Storage Tank |

1.0 INTRODUCTION

Tetra Tech NUS, Inc. (TtNUS) was authorized by Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) to conduct a site investigation and develop a Confirmatory Sampling Report (CSR) for Tank G808 at Naval Air Station (NAS) Cecil Field in Jacksonville, Duval County, Florida. A Sampling and Analysis Plan (SAP) for the assessment of soil and possibly groundwater at various tank sites including Tank G808 was submitted by TtNUS (2000a).

Tank G808 was an underground storage tank (UST) located east of Building 808. The building housed the dental offices and equipment, a pharmacy, and other medically related functions. The UST had a 6,000-gallon capacity and it was used to store fuel oil for heating [ABB Environmental Services, Inc. (ABB-ES), 1997a].

Confirmatory soil screening conducted by ABB-ES (1997b) consisted of soil screening at four locations around the AST with an organic vapor analyzer (OVA). The results of that investigation indicated that contaminated soil was not present at that time, and a recommendation of no further action (NFA) was made in the report.

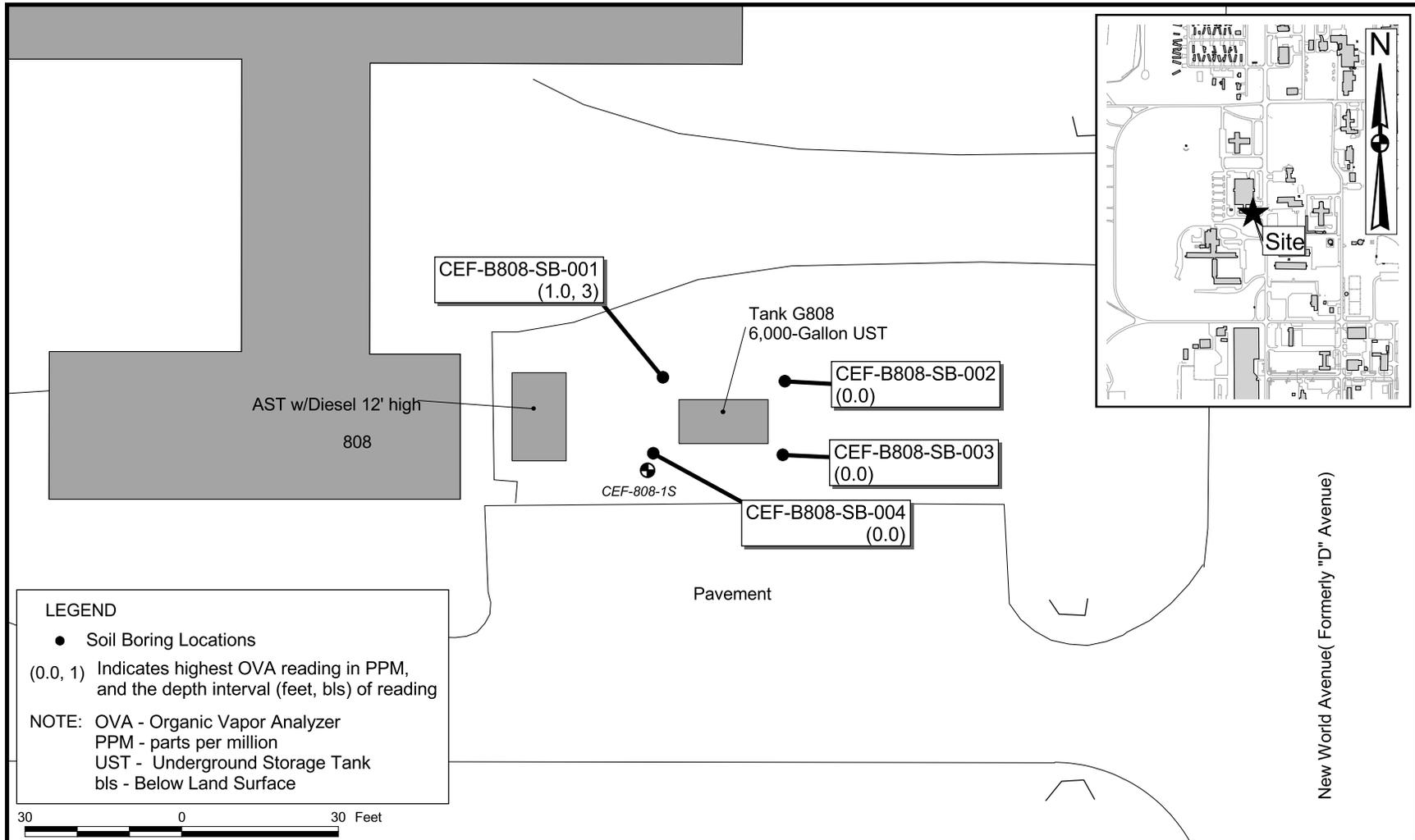
2.0 FIELD INVESTIGATION

The investigation was conducted between June 7 and 14, 2000 and included:

- Utility location prescribed for underground work.
- Four hand auger soil borings.
- Soil screening at prescribed intervals (TtNUS, 2000a).

The methodologies and equipment that were used during this investigation are in accordance with the TtNUS Comprehensive Quality Assurance Plan No. 980038, as approved by the Florida Department of Environmental Protection. A site location map is provided inset to Figure 2-1.

Following utility location protocols and an initial site visit, four hand auger borings were advanced in the soil around Tank G808 (Figure 2-1). The soil borings were advanced to the water table, general soil lithology was recorded, and soil samples were collected at depth intervals of 1 foot below land surface (bls) and every 2 feet thereafter to the water table. Soil screening was conducted with an OVA-flame ionization detector (OVA-FID). As agreed upon in the Plan of Action (POA) (TtNUS, 2000b), no soil samples were collected for laboratory analysis.



LEGEND

- Soil Boring Locations

(0.0, 1) Indicates highest OVA reading in PPM, and the depth interval (feet, bls) of reading

NOTE: OVA - Organic Vapor Analyzer
 PPM - parts per million
 UST - Underground Storage Tank
 bls - Below Land Surface



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SOIL BORING LOCATIONS DATA
 CONFIRMATORY SAMPLING REPORT
 BUILDING 808, TANK G808
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA

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| DRAWING NO. FIGURE 2-1 | REV 0 |

3.0 SITE SCREENING RESULTS

Excessively contaminated soil was not detected in soil samples collected from the unsaturated zone during the confirmatory sampling. The general lithology of the soils excavated were silty fine-grained sands in various shades of gray and brown. The depth of the water table at the site ranged from 5 to 5.5 feet bls. The soil OVA-FID data collected during the investigation are summarized in Table 3-1 and presented on Figure 2-1.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Since excessively contaminated soil was not detected during the investigation and in accordance with the SAP (TtNUS, 2000a) and the POA (TtNUS, 2000b), no groundwater investigation followed the soil screening. Supported by the previous investigation's similar findings (ABB-ES, 1997b), TtNUS recommends NFA for Tank G808.

**Table 3-1
Summary of Soil Screening Data**

Confirmatory Sampling Report
Building 808, Tank G808
Naval Air Station Cecil Field
Jacksonville, Florida

| Location | OVA-FID Concentration (ppm) | | | |
|-----------------|-----------------------------|------------|----------|-----------|
| | Depth (feet bls) | Unfiltered | Filtered | Corrected |
| CEF-B808-SB-001 | 1 | 0.0 | 0.0 | 0.0 |
| | 3 | 1.0 | 0.0 | 1.0 |
| | 5 | 2.0 | 2.0 | 0.0 |
| CEF-B808-SB-002 | 1 | 0.0 | 0.0 | 0.0 |
| | 3 | 0.0 | 0.0 | 0.0 |
| | 5 | 0.0 | 0.0 | 0.0 |
| CEF-B808-SB-003 | 1 | 0.0 | 0.0 | 0.0 |
| | 3 | 0.0 | 0.0 | 0.0 |
| | 5 | 0.0 | 0.0 | 0.0 |
| CEF-B808-SB-004 | 1 | 20.0 | 20.0 | 0.0 |
| | 3 | 5.0 | 5.0 | 0.0 |
| | 5 | 0.0 | 0.0 | 0.0 |

Notes: The soil samples were collected on June 14, 2000.
Soil samples were filtered with carbon to determine the methane concentration.
The water table was encountered at 5.5 feet bls in SB-002 and at 5 feet bls in the other borings.

Acronyms:
OVA-FID = organic vapor analyzer-flame ionization detector.
ppm = parts per million.
bls = below land surface.

5.0 PROFESSIONAL REVIEW CERTIFICATION

The data contained in this report was prepared using sound hydrogeologic principles and judgement. This assessment is based on the geologic investigation and associated information detailed in the text and appended to this report. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of any additional information on the assessment described in this report. This CSR was developed for Tank G808 at the former NAS Cecil Field, Jacksonville, Florida, and should not be construed to apply to any other site.



Mervin Dale
Florida Professional Geologist
P.G. No. 0001917


Date

REFERENCES

ABB-ES, 1997a. *Base Realignment and Closure Tank Management Plan, Naval Air Station Cecil Field, Jacksonville, Florida.* Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, January.

ABB-ES, 1997b. *Confirmatory Sampling Report, Building 808, Tank G808, Naval Air Station Cecil Field, Jacksonville, Florida.* Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, December.

TtNUS, 2000a. *Sampling and Analysis Plan for Site Assessment and Confirmatory Sampling at Various UST and AST Sites, Naval Air Station Cecil Field, Jacksonville, Florida.* Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, March.

TtNUS, 2000b. *Plan of Action No. GH01. Naval Air Station Cecil Field, Jacksonville, Florida.* Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, January.